

## Ittiam Dolby Digital (AC3) Decoder

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### Dolby Digital Decoder

Dolby Digital™ AC-3 is a perceptual audio coding standard, used by several consumer applications, like digital terrestrial television broadcasting, several cable and satellite television standards, worldwide DVD audio. Its underlying perceptual coding engine provides high quality multi-channel audio at low bit-rates, a flexible format, integrated support for important consumer features, and moderate implementation complexity. It also supports a number of system features that improve the overall listening experience, such as volume normalization and dynamics processing.

Note on Licensing: Ittiam's AC-3 Decoder implementation on ARM is provided subject to the terms and conditions of the Dolby Laboratories Licensing Corporation and requires certification of the end product.

### Features

- 5.1 Channel decoding
- Sampling Rates 32, 44.1 and 48 kHz
- Bitrates : 32 – 640 kbps
- Channel Coupling
- Rematrixing
- Dialog normalization
- Dynamic Range Compression
- Downmixing
- Error detection (CRC checking)
- Supports Annex C of ATSC-A52 (Karaoke Capable)
- Supports Annex D of ATSC-A52 (Extended bitstream)
- Supports a simple C callable with flexible memory allocation scheme
- Multi-channel, Reentrant software

## Decoder Validation

The AC3 Decoder is validated for the conformance against the specification.

### Notice

Ittiam Systems reserves the right to make changes to its products or discontinue any of its products or offerings without notice. Ittiam warrants the performance of its products to the specifications applicable at the time of sale in accordance with Ittiam's standard warranty.



**Kane Computing Ltd**  
**7 Theatre Court, London Road,**  
**Northwich, Cheshire, CW9 5HB, UK.**  
**Tel: +44(0)1606 351006**  
**Fax: +44(0)1606 351007/8**  
**Email: [sales@kanecomputing.com](mailto:sales@kanecomputing.com)**  
**Web: [www.kanecomputing.co.uk](http://www.kanecomputing.co.uk)**